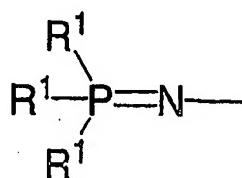


IN THE CLAIMS

This listing of claims replaces all prior versions, and listings, in this application.

1. (Canceled)

2. (Withdrawn) Process according to claim 11, wherein the catalyst used contains a phosphinimine ligand which is covalently bonded to the metal, defined by the formula:



wherein each R¹ is independently selected from the group consisting of a hydrogen atom, a halogen atom, C₁₋₂₀ hydrocarbyl radicals which are unsubstituted by or further substituted by a halogen atom, a C₁₋₈ alkoxy radical, a C₆₋₁₀ aryl or aryloxy radical, an amido radical, a silyl radical of the formula III and a germanyl radical of the formula IV.

3. (Withdrawn) Process according to claim 2, wherein the catalyst comprises as phosphinimine ligand tri-(tertiary butyl) phosphinimine.

4. (Previously Presented) Process according to claim 11, wherein the alumoxane used is of the formula: (R⁴)₂AlO(R⁴AlO)_mAl(R⁴)₂ wherein each R⁴ is independently selected from the group consisting of C₁₋₂₀ hydrocarbyl radicals and m is from 0 to 50.

Claims 5.-10 (Canceled)

11. (Currently Amended) Process for the preparation of a polymer comprising monomeric units of ethylene,

an α -olefin and

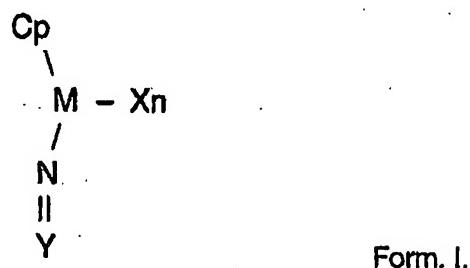
a vinyl norbornene,

applying as a catalyst system:

a. a bridged or an unbridged group 4 metal containing an unbridged catalyst having a single cyclopentadienyl ligand and a mono substituted nitrogen ligand, wherein said catalyst is defined by the formula I:

b. an aluminoxane activating compound,

c. 0 - 0.20 mol per mol of the catalyst of a further activating compound,



wherein Y is selected from the group consisting of:

ai) a phosphorus substituent defined by the formula:



wherein each R^1 is independently selected from the group consisting of a hydrogen atom, a halogen atom C_{1-20} hydrocarbyl radicals which are unsubstituted by or further substituted by a halogen atom, a C_{1-8} alkoxy radical, a C_{6-10} aryl or aryloxy radical, an amido radical, a silyl radical of the formula:

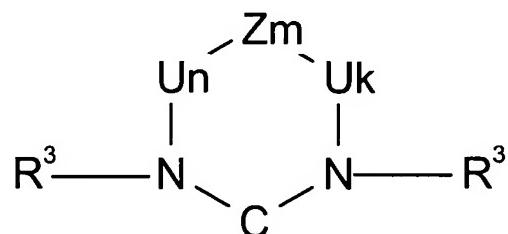


wherein each R² is independently selected from the group consisting of hydrogen, a C₁₋₈ alkyl or alkoxy radical, C₆₋₁₀ aryl or aryloxy radicals, and a germanyl radical of the formula:



wherein R² is independently selected from the group consisting of hydrogen, a C₁₋₈ alkyl or alkoxy radical, C₆₋₁₀ aryl or aryloxy radicals,

iii) a substituent defined by the formula:



Form. V.

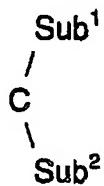
wherein each of U is C R³ R³, C=C R³ R³, C=N R³, SiRR, C=O, N R³, P R³, O or S,

Z is - A=A, and each A is C R³, N or P,

each R³ is independently selected from the group of hydrogen, hydrocarbyl radical, silyl radical according to form. III or germanyl radical according to form. IV,

k, m and n have independently the value 0, 1, 2 or 3, provided that $k + m + n > 0$ and

iii) a substituent defined by the formula:



Form. VI.

wherein each of Sub¹ and Sub² is independently selected from the group consisting of hydrocarbyls having from 1 to 20 carbon atoms, silyl groups, amido groups and phosphido groups;

Cp is a ligand selected from the group consisting of cyclopentadienyl, substituted cyclopentadienyl, indenyl, substituted indenyl, fluorenyl and substituted fluorenyl;

X is an activatable ligand and n is 1 or 2, depending upon the valence of M and the valance of X; and

M is a group 4 metal selected from the group consisting of titanium, hafnium and zirconium.